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(54) **Detection system and method to detect flame holding event**

(57) A turbine includes a combustion section (12) to receive a fluid from a compressor (11), to heat the fluid by combusting a fuel to generate heat, and to output the heated fluid to a turbine section (10). The combustion section (12) includes a combustor (16) having a combustion chamber in which the fuel is combusted, and the combustion section (16) having a sensor (17) to sense a static pressure within the combustion chamber. A combustion control device (20) detects a flame holding event in the combustion chamber based only on the sensed static pressure.

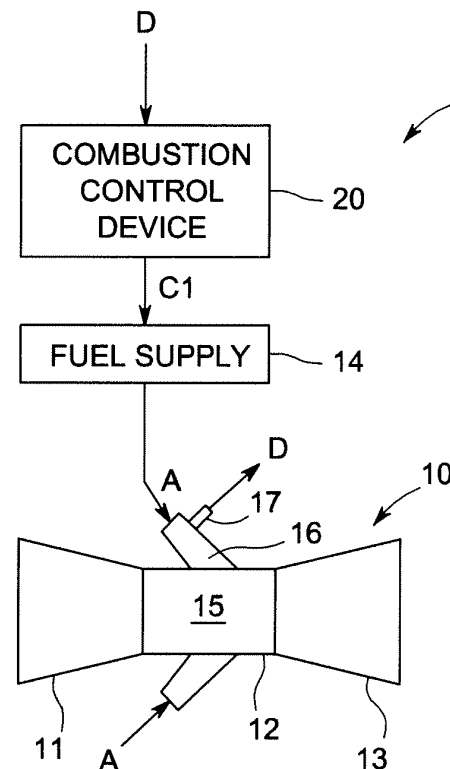


FIG. 1



EUROPEAN SEARCH REPORT

Application Number
EP 13 15 4705

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The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 18 September 2017	Examiner Van Dooren, Marc
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

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**ANNEX TO THE EUROPEAN SEARCH REPORT
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